

WHAT IS CLAIMED IS:

1. A lubricating oil composition suitable for use in a four stroke marine engine which comprises an oil of lubricating viscosity containing an admixture of
 - (a) 1 - 3.75 wt.% of an ashless dispersant;
 - (b) a metal detergent;
 - (c) an oil soluble molybdenum compound in an amount sufficient to provide 15 - 1,000 ppm molybdenum in the composition;
 - (d) a zinc dialkyl dithiophosphate in an amount sufficient to provide at least 1,200 ppm phosphorus in the composition;
 - (e) a rust inhibitor system comprising (i) as a first rust inhibitor, an ethoxylated C₄-C₁₈ alkyl phenol having 2-10 moles of ethylene oxide per mole in combination with a second rust inhibitor selected from the group consisting of (ii) a glycerol ester of a C₈-C₂₂ fatty acid, (iii) a half ester of a C₈-C₂₂ alkyl or alkenyl succinic acid and a C₂-C₄ alkylene glycol and (iv) a C₈-C₂₂ alkyl or alkenyl succinic acid or anhydride; and
 - (f) optionally, a viscosity modifier, said composition having a NOACK volatility less than 15%.
2. The composition of claim 1 wherein the second rust inhibitor is the glycerol ester and the composition further comprises a third rust inhibitor selected from the group consisting of (i) a half ester of a C₈-C₂₂ alkyl or alkenyl succinic acid and a C₂-C₄ alkylene glycol and (ii) a C₈-C₂₂ alkyl or alkenyl succinic acid or anhydride.
3. The composition of claim 1 wherein the glycerol ester is a mixture comprising about 55 wt.% glycerol monooleate, 40 wt.% glycerol dioleate and about 5 wt.% glycerol trioleate.
4. The composition of claim 1 wherein the ethoxylated alkyl phenol is the 4 mole ethoxylate of nonylphenol.

5. The composition of claim 1 wherein the half ester is propylene glycol dodecyl succinate.
6. The composition of claim 1 wherein the alkyl or alkenyl succinic acid or anhydride is dodecyl or isomerized octadecenyl succinic acid anhydride.
7. The composition of claim 1 wherein each rust inhibitor is present in a range of 0.05 to 1.5 wt.% of the composition.
8. The composition of claim 4 wherein the second rust inhibitor is dodecyl succinic acid, and each rust inhibitor is present in the range of 0.10 to 0.40 wt.%.
9. The composition of claim 1 wherein the metal detergent is a calcium sulfonate or a calcium phenate or mixtures thereof.
10. The composition of claim 1 wherein the dispersant is a polyisobutenyl succinimide wherein the polyisobutenyl has an Mn of 1600-2500.
11. The composition of claim 1 wherein the molybdenum compound is a molybdenum dithiocarbamate.
12. The composition of claim 1 wherein the molybdenum compound is a trinuclear compound of the formula $\text{Mo}_3\text{S}_k\text{L}_n\text{Q}_z$ wherein L represents oil soluble organo groups, n is 1-4, k is 4-7 and Q is a neutral electron donating compound and z is 0.5.
13. The composition of claim 1 wherein the zinc dialkyl dithiophosphate is present in an amount sufficient to provide up to 2,000 ppm P in the composition.

14. The composition of claim 13 wherein the zinc dialkyl dithiophosphate comprises secondary alkyl groups having 2 to 8 carbon atoms.

15. The composition of claim 1 wherein the viscosity modifier is shear stable and is present in an amount of 0.5 to 5.0 wt.%.

16. The composition of claim 1 further comprising one or more phosphorus-free antioxidants.

17. The composition of claim 1 further comprising an antifoam agent.

18. The composition of claim 1 further comprising a lube oil flow improver.

19. A method of operating and lubricating a four cycle marine engine which comprises supplying to the engine the lubricating oil composition of claims 1-18.